

[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)

Search  for

Limits Preview/Index History Clipboard Details

Display  Show

Range: from  to  Features: ☒ CDD

[My NCBI](#)  
[\[Sign In\]](#) [\[Register\]](#)  
[OMIM](#) [Books](#)

☐ 1: [CAC45046](#). Reports beta-1,3-galactos...[gi:15028816]

[BLink](#), [Conserved Domains](#), [Links](#)

Features Sequence

LOCUS CAC45046 309 aa linear PRI 13-JUN-2006  
 DEFINITION beta-1,3-galactosyltransferase b3Gal-T8 [Homo sapiens].  
 ACCESSION CAC45046  
 VERSION CAC45046.1 GI:15028816  
 DBSOURCE embl locus HSA132443, accession [AJ132443.1](#)  
 KEYWORDS .  
 SOURCE Homo sapiens (human)  
 ORGANISM [Homo sapiens](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;  
 Catarrhini; Hominidae; Homo.

REFERENCE 1  
 AUTHORS Amado,M., Almeida,R., Schwientek,T. and Clausen,H.  
 TITLE Identification and characterization of large galactosyltransferase gene families: galactosyltransferases for all functions  
 JOURNAL Biochim. Biophys. Acta 1473 (1), 35-53 (1999)  
 PUBMED [10580128](#)

REFERENCE 2  
 AUTHORS Jensen,M.A. and Bennett,E.P.  
 TITLE Cloning of a new member of the beta-1,3-galactosyltransferase family, b3Gal-T8  
 JOURNAL Unpublished

REFERENCE 3 (residues 1 to 309)  
 AUTHORS Jensen,M.A.  
 TITLE Direct Submission  
 JOURNAL Submitted (21-JAN-1999) Jensen M.A., School of Dentistry, University of Copenhagen, Nørre Alle 20, 2200 Copenhagen N, DENMARK

FEATURES Location/Qualifiers  
 source 1..309  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /map="7p14-p13"  
Protein 1..309  
 /product="beta-1,3-galactosyltransferase b3Gal-T8"  
Region <164..>221  
 /region\_name="Fringe"  
 /note="Fringe-like; pfam02434"  
 /db\_xref="CDD:42411"  
CDS 1..309  
 /gene="b3Gal-T8"  
 /coded\_by="AJ132443.1:1..930"  
 /db\_xref="GOA:Q96QH4"  
 /db\_xref="UniProtKB/TrEMBL:Q96QH4"



ORIGIN  
 1 maskswlnfl tflcgsaigf llcsqflsil lgekvdtpn vlhndpharh sddngqnhle  
 61 gqmnfnadss qhkdentdia enlyqkvril cwwmtgpqnl ekkakhvkat waqrcnkvlf

```
121 msseenkdfp avglktkegr dqlywktika fgyvhehyle dadwflkadd dtyvildnlr
181 wllskydpee piyfgrrfkp yvkqgymsgg agyvlskeal krfvdafktd kcthsssied
241 lalgrcmeim nveagdsrdt igketfhpfv pehhlikgyl prtfwywnyn yyppvevsle
301 illlcqyld
```

//

[Disclaimer](#) | [Write to the Help Desk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)

Sep 27 2006 15:22:06

[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)

Search  for

[Limits](#)
[Preview/Index](#)
[History](#)
[Clipboard](#)
[Details](#)

Display  Show  Send to

Range: from  to 
 Features: ☒ CDD

[My NCBI](#)  
[\[Sign In\]](#) [\[Register\]](#)  
[OMIM](#) [Books](#)

**1:** [AAF81981](#). Reports core1 UDP-galacto...[gi:8927162]

[BLink](#), [Conserved Domains](#), [Links](#)

Features Sequence

**LOCUS** AAF81981 363 aa linear PRI 03-JAN-2002  
**DEFINITION** core1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase [Homo sapiens].  
**ACCESSION** AAF81981  
**VERSION** AAF81981.1 GI:8927162  
**DBSOURCE** locus AF155582 accession [AF155582.1](#)  
**KEYWORDS** .  
**SOURCE** Homo sapiens (human)  
**ORGANISM** [Homo sapiens](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

**REFERENCE** 1 (residues 1 to 363)  
**AUTHORS** Ju,T.Z., Cummings,R.D. and Canfield,W.M.  
**TITLE** Cloning and characterization of human core1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase (Core1 beta3-Gal-T) cDNA sequence  
**JOURNAL** Unpublished  
**REFERENCE** 2 (residues 1 to 363)  
**AUTHORS** Ju,T.Z., Cummings,R.D. and Canfield,W.M.  
**TITLE** Direct Submission  
**JOURNAL** Submitted (01-JUN-1999) Department of Medicine, The University of Oklahoma, Health Science Center, 975 N.E. 10th Street, Biomedical Research Center, Room 411, Oklahoma City, OK 73104, USA

**COMMENT** Method: conceptual translation supplied by author.

**FEATURES**

**source** 1..363  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /chromosome="7"  
 /map="7p14-p13"

**Protein** 1..363  
 /product="core1  
 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase"  
 /EC\_number="2.4.1.122"  
 /function="responsible for the synthesis of core1 structure of O-glycans"  
 /name="core1 beta3-Gal-T"

**Region** 5..32  
 /region\_name="non-cleavable transmembrane signal"  
 /inference="non-experimental evidence, no additional details recorded"

**Region** <164..>221  
 /region\_name="Fringe"  
 /note="Fringe-like; pfam02434"

CDS /db\_xref="CDD:42411"  
1..363  
/gene="C1GALT1"  
/coded\_by="AF155582.1:63..1154"

## ORIGIN

```
1 maskswlnfl tflcgsaigf llcsqlfsil lgekvdtqpn vlhndpharh sddngqnhle
61 gqmnfnadss qhkdentdia enlyqkvрил cwvmtgpqnl ekkakhvkat waqrcnkvlf
121 msseenkdfp avglktkegr dqlywktika fqyvhehyle dadwflkadd dtyvildnlr
181 wllskydpee piyfgrrfkp yvkqgymsgg agyvlskeal krfvdafktd kcthsssied
241 lalgrcmeim nveagdsrdt igketfhpfv pehhlikgyl prtfwywnyn yyppvegpgc
301 csdlavsfhy vdsttmyele ylvyhлrpyg ylyryqptlp erilkeisqa nknedtkvkl
361 gnp
```

//

[Disclaimer](#) | [Write to the Help Desk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)

Sep 27 2006 15:22:06